Ref. No. coet/mech/_____ Date: 28th March, 2024

SSBT'S COLLEGE OF ENGINEERING & TECHNOLOGY,
BAMBHORI. P.B. NO. 94, JALGAON – 425001. (M.S.)
DEPARTMENT OF MECHANICAL ENGINEERING

Ref. No. coet/mech/_____ Date: 26th March, 2024

Brief Report on
Add-on Course 'Introduction to Hyper-Mesh'

Date & Venue / Location	18th March to 23rd March, 2024 CAD/CAM lab, Dept. of Mech. Engg.
Aim / Purpose	To understand the basics of Hyper-Mesh and to gain knowledge on Hyper-Mesh, different types of Meshing and analysis for practical knowledge, extensive laboratory work will be provided with basics examples.
Objectives	1. At the end of the course Students will get to experience simple and sample working of Hypermesh software 2. Students will be able to develop confidence and better understand the implications of meshing choices before analysis.
Participant's Profile	Third & Final year students of Mechanical Engineering
Description about the Program	Altair Hyper-Mesh is a high-performance finite element pre-processor to prepare even the largest models, starting from import of CAD geometry to exporting an analysis run for various disciplines. Hyper Mesh enables engineers to receive high quality meshes with maximum accuracy in the shortest time possible. A complete set of geometry editing tools helps to efficiently prepare CAD models for the meshing process. Meshing algorithms for shell and solid elements provide full level of control, or can be used in automatic mode. Altair's Batch Meshing technology meshes hundreds of files precisely in the background to match user-defined standards. HyperMesh offers the biggest variety of solid meshing capabilities in the market, including domain specific methods such as SPH, NVH or CFD meshing. A long list of CAD formats ensures a high level of CAD interoperability. Altair's connector technology automatically assembles individual parts with their Finite Element representation. HyperMesh is entirely customizable. A extensive API library can be used to automate repeating tasks or do complicated math operations for model generation. With a focus on engineering productivity
Feedback & Analysis	Annexure – A Annexure – B
Outcomes	After the course, the participants will be able to: • Understand the basic fundamentals of Hyper-Mesh. • Acquire knowledge for Preprocessing of models for analysis in Industry. • Understand the analysis Process by solving Practical examples.
Recommendations	Such type of job oriented and awareness creating courses should be conducted every year.

Dr. D. C. Talele
Coordinator

Dr. P.M. Solanki
Coordinator

Dr. P.G. Damle
Head, Dept. of Mech. Engg.

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Mission: To cultivate a conducive environment through teaching, application specific learning and services to foster the technical critical thinking ability of the students as well as the faculties to contribute for developing global mechanical engineering professionals and well-being of the society.

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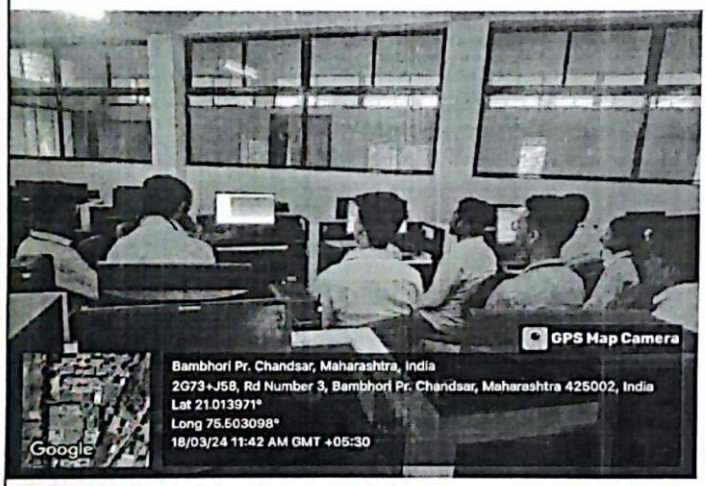
Photos	 
Notices	Annexure – C
Attendance Sheet	Annexure – D

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Annexure – A

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DEPARTMENT OF MECHANICAL ENGINEERING

Annexure – A

Feedback Questionnaire

Your responses are anonymous and will be used to improve future training methods.
Your feedback is important to us. On the scale of 1-5 where,
1-Strongly disagree, 2-Disagree, 3 - Neutral, 4-Agree & 5-Strongly Agree

Sr. No.	Particular	1	2	3	4	5
1	Were objective of the course clear to you?					
2	The course contents met your expectations					
3	The lecture sequence was well planned					
4	The contents were illustrated with adequate examples					
5	The course contents compared with your expectations were properly mix of theoretical and analytical					
6	The course exposed you to new knowledge and practices					
7	Will you recommend this course to your colleague					
8	The lectures were clear & easy to understand					
9	The teaching aids were effectively used					
10	The course material handed out was adequate					
11	The instructor encouraged interaction and was helpful					
12	Overall rating of the course					

Please provide any further comments you think would be helpful:

_____

_____

_____

_____

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Coordinator

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Coordinator

Dr. P.G. Damle
Head, Dept. of Mech. Engg.

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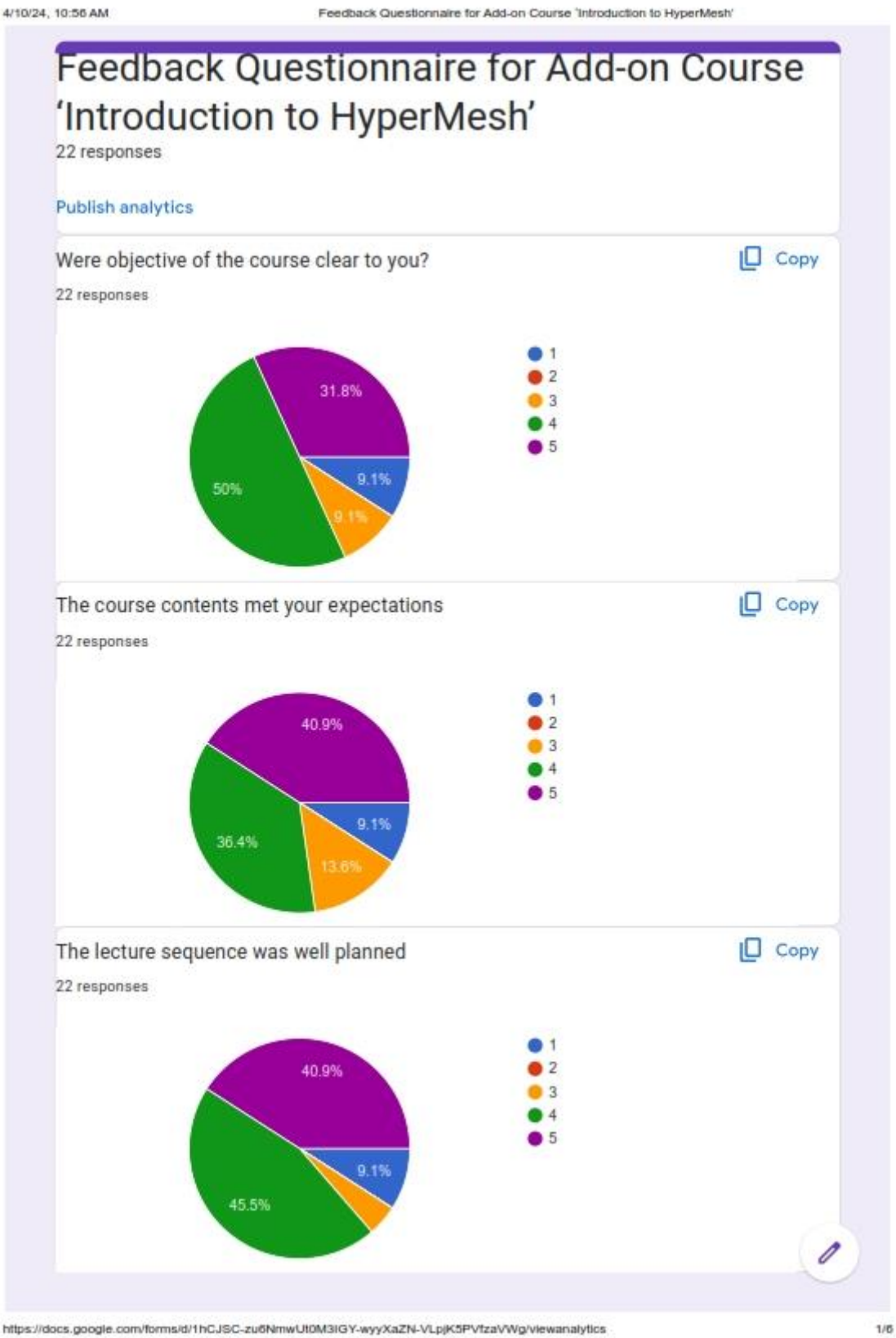
Annexure – B

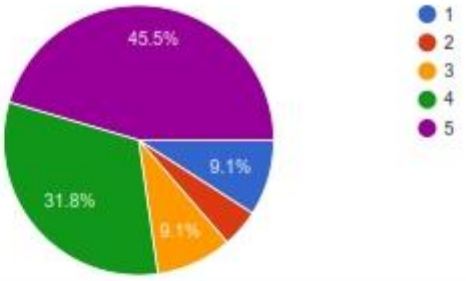
Feedback Analysis



The contents were illustrated with adequate examples

Copy

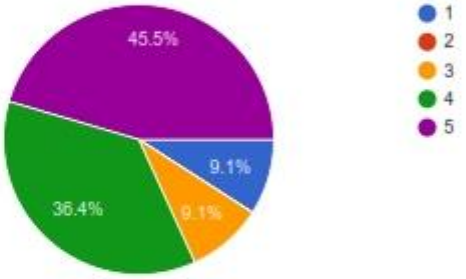
22 responses



The course contents compared with your expectations were properly mix of theoretical and analytical

Copy

22 responses



The course exposed you to new knowledge and practices

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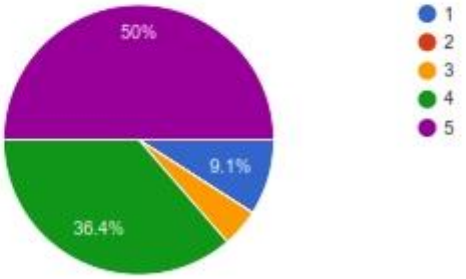
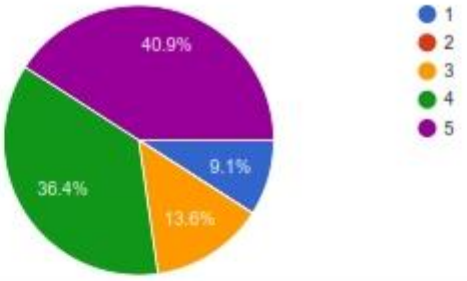
22 responses



Will you recommend this course to your colleague

Copy

22 responses



The lectures were clear & easy to understand

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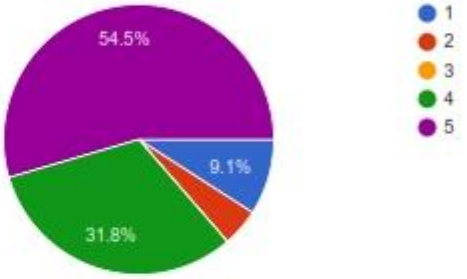
22 responses



The teaching aids were effectively used

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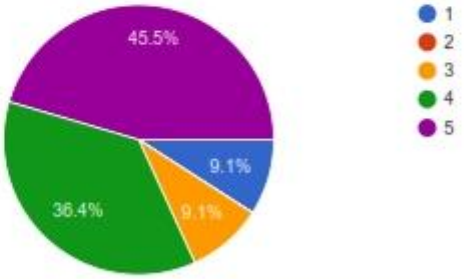
22 responses



The course material handed out was adequate

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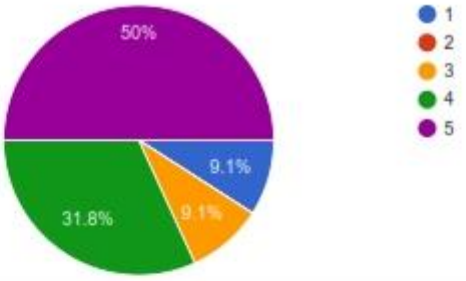
22 responses



The instructor encouraged interaction and was helpful

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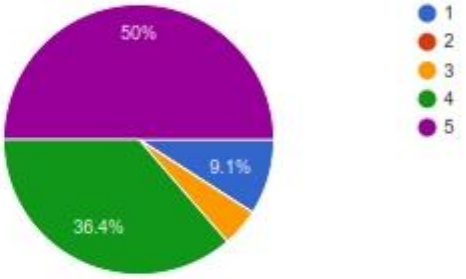
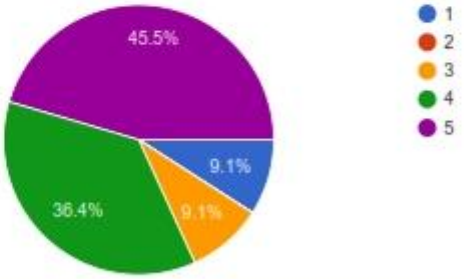
22 responses



Overall rating of the course

Copy

22 responses



Please provide any further comments you think would be helpful

22 responses

No

Nothing

N.A

Q

HyperMesh provides easy-to-learn, effective workflows that leverage domain knowledge.

Excellent

Thank you sir, for giving us knowledge of HyperMesh and I am also requesting you to, Please take the add on course on solid works software to get familiar with the design software.

Add on course is much helpful to us

If one lecture is held in a week, both knowledge and skills will improve.

-

A

NA

Good.

Good

Replace tha course with solidwork

Dr. D. C. Talele
Coordinator

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Coordinator

Dr. P.G. Damle
Head, Dept. of Mech. Engg.

Annexure – C

Notice

SSBT'S COLLEGE OF ENGINEERING & TECHNOLOGY,
BAMBHORI. P.B. NO. 94, JALGAON – 425001. (M.S.)
DEPARTMENT OF MECHANICAL ENGINEERING

Ref. No. coet/mech/_____ Date: 4th March, 2024

ADD-ON-COURSE (Introduction to HyperMesh)

Sr. No.	Date	Time	Topics	Faculty Member
1	18/03/2024	10:45 am-11.:30 am	Introduction, Terminology used in FEA	DCT
2		11:40 am-12.:30 pm	Information about Meshing, Types of Elements, Boundary conditions, Types of analysis, Applications of FEA.	
3		12:40 pm- 01:40 pm	Installation Hypermesh Software	
4		02:15 pm-03:15 pm	**Hans-On Training**	Dr. PMS
5		03:25 pm- 04:25 pm		
6		04:35 pm- 05:30 pm		
Sr. No.	**Date**	**Time**	**Topics**	**Faculty Member**
7	19/03/2024	10:45 am-11.:30 am	Menu bars, tool bars, shortcuts	DCT
8		11:40 am-12.:30 pm	**Geometry:** - Create Node, Node edit, Temp Nodes, Distance, Dimensioning, Points	
9		12:40 pm- 01:40 pm	**Geometry:** - Lines, Line edit, Length, Delete Mask	
10		02:15 pm-03:15 pm	**Hans-On Training**	Dr. PMS
11		03:25 pm- 04:25 pm		
12		04:35 pm- 05:30 pm		
Sr. No.	**Date**	**Time**	**Topics**	**Faculty Member**
13	20/03/2024	10:45 am-11.:30 am	**Geometry:** - Surface & Surface edit, Normals, Translate, Rotate	DCT
14		11:40 am-12.:30 pm	**MID-Surface Extraction:** - Auto-Midsurface Extraction, Surface Pairing, De-featuring Quick edit	
15		12:40 pm- 01:40 pm	**Geometry Clean-up:** -Surface Edges, Visualization tool bar, Display tool bar, clean up using quick edit	
16		02:15 pm-03:15 pm	**Hans-On Training**	Dr. PMS
17		03:25 pm- 04:25 pm		
18		04:35 pm- 05:30 pm		
Sr. No.	**Date**	**Time**	**Topics**	**Faculty Member**
19	21/03/2024	10:45 am-11.:30 am	Introduction to Meshing, Types of collectors, Auto-Meshing (Size & Biasing) Density and mesh style	DCT
20		11:40 am-12.:30 pm	Mesh Connectivity, Replace & Remeshing, Current and surface comps	
21		12:40 pm- 01:40 pm	**2D Mesh Quality:** - Quality criteria, Warpage, Aspect ratio, Jacobian, Skew, Reducing Trias percentage,	
22		02:15 pm-03:15 pm	**Hans-On Training**	Dr. PMS
23		03:25 pm- 04:25 pm		
24		04:35 pm- 05:30 pm		

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DEPARTMENT OF MECHANICAL ENGINEERING

Sr. No.	Date	Time	Topics	Faculty Member
25	22/03/2024	10:45 am-11.:30 am	**Manual Meshing:** -Ruled, Spline, Skin, Drag, Spin, line drag, element offset	DCT
26		11:40 am-12.:30 pm	**Mesh Edit:** - Edit Elements, find entities, Organize Entities, Project, Position, Normals, Scale	
27		12:40 pm- 01:40 pm	**TOOLS:** - Color, Rename, Detach Order Change, Number and Mass Calculation	
28		02:15 pm-03:15 pm	**Hans-On Training**	Dr. PMS
29		03:25 pm- 04:25 pm		
30		04:35 pm- 05:30 pm		
Sr. No.	**Date**	**Time**	**Topics**	**Faculty Member**
31	23/03/2024	10:45 am-11.:30 am	**Linear Meshing:** - Introduction to Analysis	DCT
32		11:40 am-12.:30 pm	Create Collectors, Material properties	
33		12:40 pm- 01:40 pm	Card edit, Loads Constraints, Load steps	
34		02:15 pm-03:15 pm	**Hans-On Training**	Dr. PMS
35		03:25 pm- 04:25 pm		
36		04:35 pm- 05:30 pm		

Mr. D.C. Talele
Course Coordinator

Dr. P.M. Solanki
Course Coordinator

Dr. P.G. Damle
Head, Dept. of Mech. Engg.

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Annexure – D

Attendance Sheet

SSBT'S COLLEGE OF ENGINEERING & TECHNOLOGY,
BAMBHORI. P.B. NO. 94, JALGAON – 425001. (M.S.)
DEPARTMENT OF MECHANICAL ENGINEERING

Ref. No. coet/mech/_____ Date: 18th March, 2024

T.E. Mechanical

Introduction to Hypermesh Training Programme Attendance Form 18/03/2024 To 23/03/2024

Academic Year 2023-24 Semester-II

Roll No	Full Name of Student (As Per NMU Marksheet)	18/03/2024		19/03/2024		20/03/2024		21/03/2024		22/03/2024		23/03/2024	
		Morning	Evening	Morning	Evening	Evening	Evening	Morning	Evening	Morning	Evening	Morning	Evening
1	Mohini Bharat Patil						AB					AB	AB
2	Lalit Ravindra Patil								AB			AB	AB
3	Akshitkumar Sanjay Jasud	AB	AB									AB	AB
4	Vishal Ramesh Pawar											AB	AB
5	Gaurav Sunil Pawar											AB	AB
6	Mayur Vijay Kasar											AB	AB
7	Dhairyasing Bhupatsing Rajput											AB	AB
8	Ritesh Mangalsing Patil											AB	AB
9	Nikhil Shrikant Dusane											AB	AB
10	Kartik Suresh Wani											AB	AB
11	Gaurav Milind Sapkale											AB	AB
12	Tushar Rajesh Sonar											AB	AB
13	Vinayak Chandrakant Dusane											AB	AB
14	Prasad Dinkar Sawant											AB	AB
15	Rahul Suresh Thakre											AB	AB
16	Raj Daulat Patil											AB	AB
17	Shubham Prafull Somani	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
18	Gaurav Vikas Patil					AB						AB	AB

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Ref. No. coet/mech/_____ Date: 18th March, 2024

B.E. Mechanical

Introduction to Hypermesh Training Programme Attendance Form 18/03/2024 To 23/03/2024

Academic Year 2023-24 Semester-II

Roll No	Full Name of Student (As Per NMU Marksheet)	18/03/2024		19/03/2024		20/03/2024		21/03/2024		22/03/2024		23/03/2024	
		Morning	Evening	Morning	Evening	Evening	Evening	Morning	Evening	Morning	Evening	Evening	Evening
17	Jayesh Mahendra Koli											AB	AB
18	Nhavi Rohit Anil							AB	AB			AB	AB
19	Dhumal Swapnil Sunil							AB	AB				
20	Shaikh Mohammad Kaif Yusuf							AB	AB				
21	Nirkhe Vivek Anil												
22	Pinjari Mohd Huzefa Shaikh Salim							AB	AB				
23	Patil Rahul Ashok							AB	AB				
24	More Sheetal Pruthviraj												AB
25	Khatik Danish Nasir	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
26	Khan Mohd Kaif Zafar	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
27	Tejas Devidas Patil	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
28	Mujawar Mohammad Saqeeb Nazeem							AB	AB				
29	Sonawane Jayesh Kamlesh	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
30	Vipul Ishwar Chaudhari	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
31	Jakhete Harshal Krushna							AB	AB			AB	AB
32	Pratik Amitraj Patil	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB

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Academic Year 2023-24 Semester-II

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		Morning	Evening	Morning	Evening	Evening	Evening	Morning	Evening	Morning	Evening	Evening	Evening
1	Mohan Satish Patil							AB	AB			AB	AB
2	Bhalodkar Om Rajendra												
3	Patil Gaurav Nitin												
4	Zurkale Harshal Dilip												
5	Bhavsar Divyanshu Hemraj												
6	Surwade Prem Dinesh					AB	AB						
7	Jagtap Lalit Ramkrushna												
8	Kailas Rajesh Tarde												
9	Gauraw Samadhan Gadhe	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
10	Lucky Ajay Singh												
11	Patil Amit Gokulsing	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
12	Nilesh Kumar							AB	AB				
13	Patil Vaibhav Ulhas								AB		AB		AB
14	Ghuge Pranav Sandip					AB	AB						
15	Mahajan Ujjwal Shashikant												
16	Bhoi Jay Arun												

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